



PSEG Public Service
Electric and Gas
Company

80 Park Plaza, T5C, Newark, NJ 07101

MAILING ADDRESS / P.O. Box 570, Newark, NJ 07101

Telephone No. 201/430-6405

Telecopy No. 201/802-1267

Hugh J. Mahoney General Environmental Counsel

August 13, 1996

Mr. Lance R. Richman, P.G.
Emergency and Remedial Response Division
U.S. Environmental Protection Agency
290 Broadway, 19th Floor, Room W-20
New York, New York 10007-1866

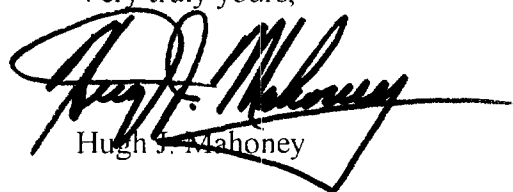
Re: Request for Information Under 42 U.S.C. §9601 et seq.
Diamond Alkali Superfund Site, Passaic River Study Area

Dear Mr. Richman:

Enclosed please find Public Service Electric and Gas Company's response to the United States Environmental Protection Agency's Request for Information, dated April 30, 1996 with respect to the referenced matter.

In the event, you have any questions concerning this response and/or any other matters of mutual interest or concern related thereto, do not hesitate to contact me.

Very truly yours,



Hugh J. Mahoney

HJM/jb
Enclosure

REQUEST FOR INFORMATION

(1) How long has your company operated the facilities designated above? If your company no longer operates these facilities, during what years did your company operate the facilities?

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(2) (a) Does your company have or has it in the past had a permit or permits issued pursuant to the Resource Conservation and Recovery Act, 42 U.S.C. §6901 et seq. for operations at either facility? If "yes", please provide the years that your company held such a permit for each facility and its EPA Identification Number.

(b) Does your company have or has it in the past had a permit or permits issued pursuant to the Federal Water Pollution Control Act, 33 U.S.C. §1251, et seq. for either of these facilities? If "yes", please provide the years that your company held such a permit for each facility.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(3) Did your company receive, utilize, manufacture, discharge, release or dispose of any materials containing the following substances at your Harrison Gas Plant facility:

	<u>Yes</u>	<u>No</u>
2,3,7,8 tetrachlorodibenzo-p-dioxin	_____	_____
or other dioxin compounds	_____	_____
Acetylene	_____	_____
Ammonium Hydroxide	_____	_____
Ammonium Sulfate	_____	_____
Anthracene	_____	_____
	<u>Yes</u>	<u>No</u>
Arsenic	_____	_____
Barium	_____	_____
Benzene	_____	_____
Benzo(a)anthracene	_____	_____
Benzo(b)fluoranthene	_____	_____
Benzo(k)fluoranthene	_____	_____
Benzo(a)pyrene	_____	_____
Butane	_____	_____
Cadmium	_____	_____
Carbon Tetrachloride	_____	_____
Chloride	_____	_____
	<u>Yes</u>	<u>No</u>

Chromium	_____	_____
Chrysene	_____	_____
Coal and Coke	_____	_____
Copper	_____	_____
Cyanide	_____	_____
Dibenzo(a,h)anthracene	_____	_____
Ethane	_____	_____
Ethanol	_____	_____
Ethyl benzene	_____	_____
Ethylene Glycol	_____	_____
Fuel oil	_____	_____
Fluorene	_____	_____
Kerosene	_____	_____
Lead	_____	_____
Methanol	_____	_____
Mercury	_____	_____
Naphthalene	_____	_____
Nickel	_____	_____
Nitric Acid	_____	_____
PCBs	_____	_____
Perchloric Acid	_____	_____
Phenol	_____	_____
Phosphorus	_____	_____
Propane	_____	_____
Propylene	_____	_____
Pyrene	_____	_____
Sodium Nitrate	_____	_____
Sulfur	_____	_____
Sulfuric Acid	_____	_____
Tar	_____	_____
Toluene	_____	_____
Xylene	_____	_____
Zinc	_____	_____

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(4) Did your company receive, utilize, manufacture, discharge, release or dispose of any materials containing the following substances at your Essex Generating Station facility:

	<u>Yes</u>	<u>No</u>
1,2-Butylene Oxide	_____	_____
2-butoxy Ethanol	_____	_____
2,3,7,8 tetrachlorodibenzo-p-dioxin or other dioxin compounds	_____	_____
Acetone	_____	_____
Acetylene	_____	_____
Ammonia	_____	_____
Ammonium Hydroxide	_____	_____
Ammonium Sulfate	_____	_____
Anthracene	_____	_____
Arsenic	_____	_____
Barium or Barium Compounds	_____	_____
Benzene	_____	_____
Benzo(a)anthracene	_____	_____
Benzo(b)fluoranthene	_____	_____
Benzo(k)fluoranthene	_____	_____
Benzo(a)pyrene	_____	_____
Butane	_____	_____
Cadmium	_____	_____
Carbon Tetrachloride	_____	_____
Chloride	_____	_____
Chromium	_____	_____
Chrysene	_____	_____
Coal and Coke	_____	_____
Coal Tar	_____	_____
Copper	_____	_____
Cyanide	_____	_____
Dibenzo(a,h)anthracene	_____	_____
Ethane	_____	_____
Ethanol	_____	_____
Ethanolamine	_____	_____
Ethyl benzene	_____	_____
Ethyl Alcohol	_____	_____
Ethylene Glycol	_____	_____
Fuel oil	_____	_____
Fluorene	_____	_____
Isobutane	_____	_____
Isopropyl Alcohol	_____	_____
Kerosene	_____	_____
Lead or Lead Compounds	_____	_____
Mercury	_____	_____
Methanol	_____	_____
Methyl Alcohol	_____	_____
Methyl Chloroform	_____	_____
Methyl Ethyl Ketone	_____	_____
Naphthalene	_____	_____

	<u>Yes</u>	<u>No</u>
Nickel	_____	_____
Nitrate	_____	_____
Nitric Acid	_____	_____
PCBs	_____	_____
Perchloric Acid	_____	_____
Phenol	_____	_____
Phosphorus	_____	_____
Potassium Hydroxide	_____	_____
Propylene	_____	_____
Pyrene	_____	_____
Sodium Nitrate	_____	_____
Sulfate	_____	_____
Sulfur	_____	_____
Sulfuric Acid	_____	_____
Tar	_____	_____
Tert-Butyl Alcohol	_____	_____
Tetrachloroethylene	_____	_____
Titanium Dioxide	_____	_____
Toluene	_____	_____
Xylene	_____	_____
Zinc	_____	_____

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(5) To the extent that it is not included in Questions 3 or 4 above, please provide a list of all materials manufactured, stored, used or otherwise handled at the Harrison or Essex facility. For each material, identify the facility, specify the year it was manufactured, stored, used or otherwise handled at the subject facility, and the volumes of material handled.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(6) (a) Describe in detail the processes used at each facility. For every process at each facility, include information regarding the following:

- (i) the date(s) the process began to be used and the date(s) on which PSEG ceased using the process;
- (ii) the raw materials combined or blended in each process;
- (iii) the temperature, pressure, and pH of each process;

- (iv) any residues, waste products, waste streams and/or by-products (including, but not limited to, sludge, fly ash, and condensate from scrubbers) as a result of the processes;
- (v) the volume of each raw material used;
- (vi) the chemical composition and the purity of the raw material; and
- (vii) a map of the facility indicating where each process occurred.

(b) During what parts of the processes identified in the response to item (6)(a), above, were hazardous substances, including, but not limited to, the substances listed in response to items (3), (4) or (5) generated as a product or by-product?

- (i) Describe the chemical composition of these hazardous substances.
- (ii) For each process, what amount of hazardous substances was generated per volume of finished product?
- (iii) Were these hazardous substances combined with wastes from other processes? If so, wastes from what processes?

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(7) (a) Please identify all methods used to generate electric power at each facility since its inception. For each method and to the extent not identified in response to Question 6, please identify and describe in detail:

- (i) the date(s) the process began to be used and the date(s) on which PSEG ceased using the process;
- (ii) all fuels, including but not limited to coal and fossil fuels, burned, used or consumed on an annual basis;
- (iii) the source of the fuel;
- (iv) the temperature, pH and pressure of each process;

- (v) any residues, waste products, waste streams and/or by-products (including, but not limited to, sludge, fly ash, and condensate from scrubbers) as a result of the process;
- (vi) the equipment used in the process;
- (vii) the volume of each fuel used;
- (viii) the chemical composition of the fuel; and
- (ix) the purity of the fuel.

(b) During what parts of the processes identified in the response to item (7)(a), above, were hazardous substances, including, but not limited to, the substances listed in response to items (3), (4), (5), or (6) generated as a product or by-product?

- (i) Describe the chemical composition of these hazardous substances.
- (ii) For each process, what amount of hazardous substances was generated per volume of finished product?
- (iii) Were these hazardous substances combined with wastes from other processes? If so, wastes from what processes?

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996

(8) Describe the methods of collection, storage, treatment, and disposal of all hazardous substances, including, but not limited to, the substances listed in response to items (3), (4), (5), (6), and (7). Include information on the following:

(a) Identify all persons who arranged for and managed the processing, treatment, storage and disposal of hazardous substances.

(b) If hazardous substances were taken off-site by a hauler or transporter, provide the names and addresses of the waste haulers and the disposal site locations.

(c) Describe all storage practices employed by your company with respect to all hazardous substances at either facility from

the time operations commenced until the present. Include all on-site and off-site storage activities.

(d) Describe all hazardous substance storage locations at either facility. Include in your description whether each location was surrounded by a containment system.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(9) Identify all chemical and/or hazardous substances used by PSEG at each facility that would be added to treat the cooling water before discharge to the Passaic River. Indicate the amounts of each chemical added per unit volume of cooling water, and specify the annual consumption of such chemicals for the treatment of cooling water at each facility.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(10) (a) For process waste waters generated at each facility which contained any hazardous substances, including, but not limited to, the substances listed in response to items (3), (4), (5) or (6):

(i) Was the waste stream discharge into a sanitary sewer and if so, during what years?

(ii) Were they treated before being discharged to the sanitary sewer and if so, how? Please be specific.

(iii) If the waste waters were not discharged to the sanitary sewer, where were they disposed and during what years?

(iv) To the extent not discussed above, how was residue from the cleaning of reactor vessels or scrubbers disposed of?

(v) How was waste water or effluent handled at each facility before 1924?

(vi) Please provide the results of any analyses performed on any waste process streams generated at each facility.

(b) For floor drains or other disposal drains at each facility:

- (i) Did the drains connect to a sanitary sewer and if so, during what years?
- (ii) If the floor drains or other disposal drains at either facility were not discharged to the sanitary sewer, where did they discharge and during what years?
- (c) (i) Did any storm sewers, catch basins or lagoons exist at any time at either facility and if so, during what years?
- (ii) If catch basins or lagoons existed, were they lined or un-lined?
- (iii) Where was the discharge from any of these structures released and during what years? Was this discharge treated before its release and if so, how and during what years? What was the chemical composition of any waste waters released, and during which years?
- (d) Please supply diagrams of any waste water collection, transport or disposal systems at each facility.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(11) (a) Were any hazardous substances, including, but not limited to, the substances listed in response to Questions (3) through (6) above, disposed of in the Passaic River or discharged to the Passaic River? If yes, identify the hazardous substances, estimate the amount of material discharged to or disposed of in the Passaic River and the frequency with which this discharge or disposal occurred.

(b) Describe in detail the basis for the statement in the 1991 Application for PVSC Sewer Connection Permit for the Harrison facility that 2,3,7,8-TCDD was suspected to be present in the effluent discharged from that facility. Produce all studies, reports memoranda or other writings that address the presence or absence of dioxin in this or similar effluent.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(12) Provide all documents, including analytical laboratory data sheets containing data for any analyses of any polychlorinated dibenzo-p-dioxin or dibenzofuran compounds, including 2,3,7,8-TCDD, in any process, environmental, and site matrices at either

the Harrison or Essex PSEG facility including stack and flue gases, condensates, fly ash, bottom ash, soils, sediments, groundwater, ambient air, coal, coal tars, scrubber water, and effluents discharged to the sanitary sewer, storm sewer or river.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(13) (a) Describe where each outfall from either the Harrison or the Essex PSEG facility to the Passaic River was located. Provide copies of any drawings, diagrams or maps which indicate where the out falls were located.

(b) Describe when the out falls were installed at each facility, and if removed, the date of removal.

(c) Describe in detail how the out falls were utilized by PSEG, including, but not limited to, whether storm water, process waste water, effluent, sanitary water or contaminated storm water was ever discharged through the out falls.

(d) Describe the source, nature, and content of any material discharged through any outfall from each facility. Produce all monitoring reports and analytical results of the contents of these streams.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(14) Please identify any leaks, spills, explosions, fires or other incidents of accidental material discharge that occurred at each facility during which or as a result of which any hazardous substances, including, but not limited to, the substances listed in response to Questions (3), (4), (5), (6) or (7) were released on the ground, into the waste water discharge or storm drainage system at the facility or to the Passaic River. Please provide:

(a) the date of the spill or discharge;

(b) the volume of material spilled or discharged;

(c) the nature of the material spilled or discharged;

(d) the recovery or remediation reports, if any;

(e) all correspondence reports, inspection reports or other writings referencing the spill;

(f) the results of any sampling of the soil, water, air or other environmental media after any such incident and before and after clean-up; and

(g) the details of the ultimate disposal of any contaminated material.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(15) (a) Was either facility ever subject to flooding. If so, was the flooding due to:

(i) overflow from sanitary or storm sewer back-up, and/or

(ii) flood overflow from the Passaic River?

(b) Please provide the date, duration, and areal impact of each flood event.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(16) Produce all correspondence, reports, inspections or other writings concerning the Harrison or Essex facility between PSEG and the Passaic Valley Sewerage Commissioners, the United States Environmental Protection Agency, the New Jersey State Department of Health and/or the New Jersey Department of Environmental Protection. Also provide any information you have about any criminal, civil, or administrative actions or charges brought against your company in association with either facility, including, but not limited to, the violation against the PSEG Harrison facility by NJDEP on 10/3/69.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(17) Describe in detail the history of the ownership of the tract of land beneath the New Jersey Turnpike which borders the Essex facility on which the NJ Turnpike Authority detected dioxin in 1991.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(18) Please provide all information regarding remedial investigations undertaken at the site of either the Harrison or the Essex facility pursuant to agreements between PSEG and the State of New Jersey or Federal government.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(19) To the extent not provided in response to a Question above, please produce all studies, modeling, reports, writings or any other documents pertaining to analyses of air emissions, ground water, surface water, ambient air, and any other environmental media at both facilities, performed by PSEG, a contractor for PSEG or by another entity.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(20) (a) Has your company owned each of the facilities at the locations designated above? If so, from whom did your company purchase each facility and in what year? If your company subsequently sold the facility, to whom did your company sell it and in what year? Please provide copies of any deeds and documents of sale.

(b) If your company does not own each of the facilities, from whom did your company rent each facility and for what years? Please provide copies of any rental agreements.

(c) To the extent that you know, please provide the names of all parties who owned or operated either facility during the period from 1940 through the present. Describe the relationship, if any, of each of those parties with your company.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(21) Answer the following questions regarding your business or company. In identifying a company that no longer exists, provide all the information requested, except for the agent for service of process. If your company did business under more than one name, list each name.

(a) State the legal name of your company.

(b) State the name and address of the president or the chairman of the board, or other presiding officers of your company.

(c) Identify the state of incorporation of your company and your company's agent for service of process in the state of incorporation and in New Jersey.

(d) Provide a copy of your company's "Certificate of Incorporation" and any amendments thereto.

(e) If your company is a subsidiary or affiliate of another company, or has subsidiaries, or is a successor to

another company, identify these related companies. For each related company, describe the relationship to your company; indicate the date and manner in which each relationship was established.

- (f) Identify any predecessor organization and the dates that such company became part of your company.
- (g) Identify any other companies which were acquired by your company or merged with your company.
- (h) Identify the date of incorporation, state of incorporation, agents for service of process in the state of incorporation and New Jersey, and nature of business activity, for each company identified in the responses to items (21)(e), (f), and (g), above.
- (i) Identify all previous owners or parent companies, address, and the date change in ownership occurred.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.

(22) Provide the name, address, telephone number, title and occupation of the person(s) answering this "Request for Information" and state whether such person(s) has personal knowledge of the responses. In addition, identify each person who assisted in any way in responding to the "Request for Information" and specify the question to which each person assisted in responding. Please include any of the names and addresses of former employees who were contacted to respond to any of the questions.

SEE ATTACHED PSE&G'S RESPONSES, DATED AUGUST 13, 1996.